

## Dragon, Karen E. (CDC/NIOSH/EID)

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**From:** Cloonan, Terrence K. (CDC/NIOSH/NPPTL)  
**Sent:** Wednesday, May 07, 2008 11:16 AM  
**To:** Dragon, Karen E. (CDC/NIOSH/EID)  
**Subject:** Law Enforcement Anonymous Commenter # 1, 2006, Public-Stakeholder Community Category for Docket 052

**Attachments:** SourceEvent\_IndyCmts\_2006.JPG; Backpage\_SourceEvent\_IndyCmts\_2006.JPG;  
IndyLawEnforce\_Anonymous1cmt1\_26May06.JPG;  
IndyLawEnforce\_Anonymous1cmt2\_26May06.JPG;  
IndyLawEnforce\_Anonymous1cmt3\_26May06.JPG;  
IndyLawEnforce\_Anonymous1cmt4\_26May06.JPG

In April, 2006, Law Enforcement Responder (LER) Anonymous Commenter # 1 of 4 anonymous and one identified commenter, (Officer Jay Davis), provided hand written comments on the draft CBRN SCBA User's Guide Training Aid, dated May 20, 2005.

Files contain copy of original conference notice/Source Event front and back pages to substantiate the venue the comments were volunteered in .....plus 4 scanned copies of the actual paper sets of comment pages from Anonymous # 1.



SourceEvent\_IndyC  
mts\_2006.JPG ...



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IndyLawEnforce\_An  
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IndyLawEnforce\_An  
onymous1cmt2\_...



IndyLawEnforce\_An  
onymous1cmt3\_...



IndyLawEnforce\_An  
onymous1cmt4\_...

**Terrence K. Cloonan**  
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**Policy and Standards Development Branch**  
**National Personal Protective Technology Laboratory of NIOSH/CDC/HHS, U.S.A.**  
**(412) 386-6701, Desk.**

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## Seminar Announcement

*AFC International Inc.  
Gas Detection, Air Monitoring and Respiratory  
Specialists*

# **NIOSH CBRN Respirator Use in Fire Fighting and Hazardous Materials/Weapons of Mass Destruction (CBRN) Response**



### **PRESENTED BY:**

**Terrence K. Cloonan**

Physical Scientist, National Personal Protective Technology Laboratory of NIOSH, CDC, HHS,  
Pittsburgh, PA

### **HOSTED BY:**

**Indiana Department of Environmental Management (IDEM)  
and Sponsored by AFC International Inc., DeMotte, IN.**

### **WHEN/WHERE:**

Thursday, April 27, 2006, 9:30am-11:30am,  
Indiana Government Center North, 13<sup>th</sup> Floor, Room 1319, Indianapolis, IN

### **WHO SHOULD ATTEND:**

Local First Responders, First Receivers, Special Weapons and Tactics (SWAT), Hazardous Materials Teams (HAZMAT) and State/  
Federal Responders in the State of Indiana & USA.

**DISCLAIMER:** The findings and conclusions in this presentation have not been formally disseminated by the National Institute for Occupational Safety and Health and should not be construed to represent any agency determination or policy.





**ABSTRACT:** This seminar will provide an overall description of the chemical, biological, radiological, and nuclear (CBRN) protections and dual use protections available to workers that use NIOSH-certified respirators. NIOSH's National Personal Protective Technology Laboratory (NPPTL) has federal authority, per Title 42, Code of Federal Regulations, Part 84, to issue CBRN protections to U.S. and international respirator manufacturers. NPPTL is located on the campus of the Bruceton Research Center, PA. The NPPTL presentation discusses the NPPTL mission, NIOSH CBRN respirator standards, NPPTL respirator user guidance, and NPPTL customer focus, with an emphasis on the proposed NPPTL "7 Step process" for identifying and using a NIOSH CBRN SCBA in a structural fire, illicit drug entry, CBRN terrorism, or a natural disaster response.



**SPEAKER:** Terrence K. Cloonan, is a physical scientist for NIOSH's National Personal Protective Technology Laboratory in Pittsburgh, PA. He is a member of the NPPTL CBRN team, one of the primary scientific authors of the NIOSH CBRN SCBA and APR certification standards and the federal lead on CBRN respirator user guides. Terry is a former U.S. Army chemical officer and, as a physical scientist, he responded to the New York City World Trade Center attack, provided input to NIOSH/RAND, *Protecting Emergency Responders, Volume 3* publication and NIOSH, Hurricane Katrina PPE recommendations.

**Call AFC International Inc. 800-952-3293 for R.S.V.P and details.  
RSVP not required but recommended due to limited seating.**

**DISCLAIMER:** The findings and conclusions in this presentation have not been formally disseminated by the National Institute for Occupational Safety and Health and should not be construed to represent any agency determination or policy.

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Verify that your CBRN SCBA is assembled only with the parts listed in the NIOSH matrix-style approval label included with the user instructions.



OPEN-CIRCUIT, PRESSURE DEMAND, CBRN,  
COMPRESSED AIR, SELF-CONTAINED BREATHING  
APPARATUS

THESE RESPIRATORS ARE APPROVED ONLY IN THE FOLLOWING CONFIGURATIONS:

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1. PROTECTION

SC Self-contained  
PD Pressure-demand  
CBRN Chemical, biological, radiological and nuclear

2. CAUTIONS AND LIMITATIONS

- I Contains electrical parts which have not been evaluated as an ignition source in flammable or explosive atmosphere by MSHA/NIOSH.
- J Failure to properly use and maintain this product could result in injury or death.
- M All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.
- N Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration specified by the manufacturer.
- O Refer to user's instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- S Special or critical user's instructions and/or specific use limitations apply. Refer to user's instructions before donning.

3. CAUTIONS AND LIMITATIONS: CBRN

- Q Use in conjunction with personal protective ensembles that provide appropriate levels of protection against dermal hazards.
- R Some CBRN agents may not present immediate effects from exposure but can result in delayed impairment, illness, or death.
- T Direct contact with CBRN agents requires proper handling of the SCBA after each use and between multiple entries during the same use. Decontamination and disposal procedures must be followed: if contaminated with liquid chemical warfare agents, dispose of the SCBA after decontamination.
- U The respirator should not be used beyond 6 hours after initial exposure to chemical warfare agents to avoid possibility of agent permeation.



Figure 4. Example of a NIOSH CBRN SCBA matrix-style approval label.



Figure 5. Actual back frame assembly with affixed CDC NIOSH CBRN agent approved label, NIOSH abbreviated harness label and SEI compliance label. All three labels are required for NIOSH CBRN SCBA certification. Courtesy of Interspiro.

2 If not there, where do we look for CBRN NIOSH approved Retro-fits?



## CBRN USE

The following NIOSH cautions and limitations appear in Section 3 of the CBRN SCBA matrix-style approval label and, along with the industrial use limitations, apply specifically to use in CBRN environments.

- Q** Use in conjunction with personal protective ensembles that provide appropriate levels of protection against dermal hazards.
- R** Some CBRN agents may not present immediate effects from exposure, but can result in delayed impairment, illness, or death.
- T** Direct contact with CBRN agents require proper handling of the SCBA after each use and between multiple entries during the same use. Decontamination and disposal procedures must be followed. If contaminated with liquid chemical warfare agents, dispose of the SCBA after decontamination.
- U** The respirator should not be used beyond six hours after initial exposure to chemical warfare agents to avoid possibility of agent permeation.

How is it disposed?

Federal agency help?

③

# 4 CBRN Respirator Use Life (CRUL)

When a CBRN SCBA is contaminated with a chemical warfare agent (CWA) in vapor, aerosol, or liquid form, it has a limited use life of **six continuous hours**, beginning at the time of an exposure. The time of CWA exposure is determined by using qualitative or quantitative detection methods in the field, or by laboratory analysis of SCBA removed from the site.

Remember:

- The time period is **six continuous hours**, not a sum of smaller time periods of intermittent use ?
- At the six-hour mark, the entire SCBA must be decontaminated and disposed of properly
- The SCBA cannot be reused following the six-hour period
- CWA are nerve and blister agents
  - **Nerve agents** include: GA (Tabun), GB (Sarin), GD (Soman), GF (cyclohexyl Sarin), and V-series agents, such as VX
  - **Blister agents** include: H (sulfur mustard), HD (distilled sulfur mustard), nitrogen mustard (HN-1, HN-2 and HN-3) and Lewisite (L, L-1, L-2 and L-3)

Break this down (4)  
 If I do a 2 hr. operation +  
 1 month later a 1 hr. op.  
 is the unit done?

Notes

Medical

Follow up medical test

recommendations?

(5)

All 5 comments  
documented in

the Dec 18, 2006

Comments matrix

for the Training Aed  
Dec 19 Dec 06